

# CCNA Cybersecurity Operations v1.1

## Cyber Ops Skills Challenge Game - Frequently Asked Questions

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### **What is the CyberOps Skills Challenge Game?**

The Cyber Ops Skills Challenge game is an optional activity, found after Chapter 13 of the CCNA Cyber Ops course, that allows students to use their skills and knowledge to compete with other students. Instructors can set up teams or individuals to compete for points. It's an excellent way for your students to reinforce learning in a positive, fun, and fast-paced environment. The game consists of two VMs. A classroom server VM and a client VM for game play and game administration. Instructions for installing and administering the game are provided in the Instructor Guide. Instructions for playing the game are included in the Student Guide.

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### **What is required to run the game client and server?**

Computers that are able to run a recent version of Oracle VirtualBox. The server and client VMs require 2 GB of available RAM and about 800 MB of storage for the server and 1.8 GB for the client.

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### **What is Oracle VirtualBox? Where do I get it? and how much does it cost?**

Oracle VirtualBox is a free, open source, cross-platform virtualization software used in this course. It can be installed on Windows, Linux, Mac OS X, and Solaris x86 computers. The VirtualBox base software is licensed under the GNU General Public License version 2 and the extension pack is available under the Personal Use and Evaluation license. If you qualify under the terms of this license, VirtualBox is available at no cost. VirtualBox can be downloaded from Oracle: <http://www.oracle.com/technetwork/server-storage/virtualbox/downloads/index.html>

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### **How do I know what questions and tasks are in the game?**

You can review the game questions by creating a game session and then joining it as an admin user. This can be done from a client over a LAN, or by connecting a client VM to a server VM on the same host. Instructions for this can be found in the Instructor Guide for the game.

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### **Can I check the scores from previous game sessions?**

Yes, you can open previous sessions that are stored on you server from a game client. The list of participants and their scores is available.

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### **Are the answers for the game questions and tasks available?**

No. Because games could easily be ruined by cheaters, a file containing the answers is not available for distribution.

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### **Is there a hosted internet-accessible game server available to Academies?**

No. The game is designed for game clients to access the game server on a local LAN. The server could be hosted on an Internet-facing server if an individual instructor or Academy wishes to use the game in this way.

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### **I have logged into the game server, but can't figure out what to do.**

Nothing needs to be done on the game server. The only reason you might log on to it is to determine its IP address so that students can connect their game clients to it. Assigning the server host a manual IP address on the LAN makes even this unnecessary.

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### **Can I create my own games?**

Game creation is possible. However, a polished user interface and publishable documentation have not been developed. The goal of this initial release is to share the gaming framework. Additional features will be added later as capacity and budget permit.

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### **I can't get the virtual machines to work properly in Oracle VirtualBox. What can I do?**

If you currently have a version of Oracle VirtualBox that is older than the 5.2.4 version, you need to update to the 5.2.4 version or higher in order for the virtual machines to work properly.

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### Why are my mouse and keyboard not working outside of the VM?

If your keyboard or mouse will not function outside of the VM, press the CTRL key that is on the right side of the keyboard. This is called the VirtualBox host key. The host key is shown on the lower right-hand corner of the VM window. Other host operating systems may use another key as the host key.

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### How do I remove the virtual machines when I am done with the course?

- 1) Shut down the VM
- 2) Right-click the VM > **Remove**, select **Delete all files**

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### How do I replace a file that was accidentally deleted?

- 1) Shut down the VM
- 2) Right-click the VM > **Remove**, select **Delete all files**
- 3) Re-import the VM: **File** > **Import Appliance**

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### I made a change in a VM, and it is not working properly anymore.

- 1) Shut down the VM
- 2) Right-click the VM > **Remove**, select **Delete all files**
- 3) Re-import the VM: **File** > **Import Appliance**

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### The VM screen is black, what do I do now?

When the VM has been idle for some time, the screen may be black. Click anywhere within the VM to display the login screen.

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